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Date of Deposit: March 15, 2004
Docket No. M0656.70055US00

DOCKET NO: M0656.70055US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Venkataraman et al.
Serial No: 09/557,997
Confirmation No: 7686
Filed: April 24, 2000
For: SYSTEM AND METHOD FOR ANALYZING
SEQUENCES OF CHEMICAL UNITS
Examiner: Smith, Carolyn L.
Art Unit: 1631

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed more than three months after the filing date of this application and after the mailing date of the first Office Action, but before the mailing date of either a final action under 37 C.F.R. §1.113 or a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in this application.

The fee of \$180 as set forth in 37 C.F.R. §1.17(p) is enclosed.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application.

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Who has not made the following
listed item(s) related application
serial no. 09/807285

The applicant would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Docket No.</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>
M0656.70063US00	09/802,285	03/08/2001	Liu et al.
M0656.70069US00	09/951,138	09/12/2001	Sasisekharan et al.
M0656.70070US00	09/982,548	10/18/2001	Liu et al.
M0656.70076US00	10/108,195	03/27/2002	Kwan et al.
M0656.70086US00	10/291,337	11/08/2002	Liu et al.
M0656.70089US00	10/356,349	01/31/2003	Venkataraman et al.
M0656.70089US01	10/760,133	01/16/2004	Venkataraman et al.
M0656.70089US02	10/759,520	01/16/2004	Venkataraman et al.
M0656.70092US00	10/429,921	05/05/2003	Myette et al.
M0656.70094US00	10/441,970	05/20/2003	Sasisekharan et al.
M0656.70095US00	10/454,816	06/03/2003	Pojasek et al.
M0656.70096US00	10/753,761	01/07/2004	Sasisekharan et al.

The Applicant would like to bring to the Examiner's attention the enclosed search reports and communications from corresponding International or Foreign National Applications:

<u>Docket No.</u>	<u>Serial No.</u>	<u>Mailing Date</u>	<u>Type of Report</u>
M0656.70055WO00	PCT/US00/10990	November 17, 2000	Invitation to Pay Additional Fees
M0656.70055WO00	PCT/US00/10990	April 18, 2001	International Search Report
M0656.70055WO00	PCT/US00/10990	June 11, 2001	Written Opinion
M0656.70055WO00	PCT/US00/10990	August 21, 2001	International Preliminary Examination Report
M0656.70055EP00	00 923 599.5-2201	August 27, 2002	Office Communication

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;

2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;

3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.


By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,
Venkataraman et al., *Applicant*

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EXAMINER: Smith, Carolyn L.

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U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A46	4,551,296		Kavesh et al.	11-05-1985
	A47	4,679,555		Sackner	07-14-1987
	A48	4,830,013		Maxwell	05-16-1989
	A49	4,928,694		Maxwell	05-29-1990
	A50	5,453,171		Ma et al.	09-26-1995
	A51	5,569,366		Chen et al.	10-29-1996
	A52	5,607,859		Biemann et al.	03-04-1997
	A53	5,759,767		Lakowicz et al.	06-02-1998
	A54	5,767,269		Hirsh et al.	06-16-1998
	A55	5,776,434		Purewal et al.	07-07-1998
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	A58	5,879, 713		Roth et al.	03-09-1999
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	A69	6,309,853	B1	Friedman et al.	10-30-2001
	A70	6,333,051	B1	Kabanov et al.	12-25-2001
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FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
	B11	EP	0 114 589	B1	President and Fellows of Harvard College	09-23-1987	
	B12	EP	0 140 781	A2	DROPIC Societe Civile de Gestion de Droit de Propriete Industrielle CHOAY	05-08-1985	Y- ABSTRACT ONLY
	B13	EP	0 244 236	A2	Novo Industri A/S	11-04-1987	
	B14	EP	0 342 215	B1	Genentech, Inc.	08-25-1993	

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	B19	WO	93/10450	A1	Glyko, Inc.	05-27-1993	
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	B22	WO	94/12618	A1	Massachusetts Institute of Technology	06-09-1994	
	B23	WO	95/13830	A1	Massachusetts Institute of Technology	05-26-1995	
	B24	WO	96/01648	A1	Ibex Technologies R and D, Inc.	01-25-1996	
	B25	WO	96/32149	A1	Inhale Therapeutic Systems	10-17-1996	
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	B27	WO	97/11684	A1	Ibex Technologies Inc.	04-03-1997	
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	B29	WO	98/04902	A1	The State of Oregon	02-05-1998	
	B30	WO	98/31346	A1	Massachusetts Institute of Technology	07-23-1998	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
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	C53	CLAVERIE et al., "Information Enhancement Methods for Large Scale Sequence Analysis", <i>Computers Chem.</i> , 1993, 191-201, 17(2).	
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	C55	DULL et al., "Lung Endothelial Heparan Sulfates Mediate Cationic Peptide-induced Barrier Dysfunction: a New Role for the Glycocalyx", <i>Am J Physiol Lung Cell Mol Physiol</i> , 2003, L986-L995, 285.	
	C56	EDWARDS et al., "Large Porous Particles for Pulmonary Drug Delivery", <i>Science Reprint Series</i> , 1997, 1868-1871, 276.	
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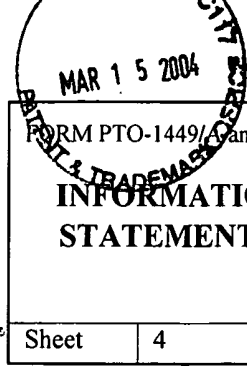
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C77	LIU, Jian, et al., "Strategy for the Sequence Analysis of Heparin", <i>Glycobiology</i> , 1995, 765-774, 5(8).		
C78	LIU, Jian, et al., "Characterization of a Heparan Sulfate Octasaccharide That Binds to Herpes Simplex Virus Type 1 Glycoprotein D", <i>The Journal of Biological Chemistry</i> , 2002, 33456-33467, 277(36).		
C79	LIU, Jian, et al., "Heparan Sulfate D-Glucosaminyl 3-O-Sulfotransferase-3A Sulfates N-Unsubstituted Glucosamine Residues", <i>The Journal of Biological Chemistry</i> , 1999, 38155- 38162, 274(53).		
C80	MARCINIAK, "Differential Role of Fractionated Heparin in Antithrombin-III Proteolysis", <i>Blood</i> , 1982, 576-581, 59(3).		
C81	McLEAN et al., "Enzymic Removal of 2-O-Sulphato- $\Delta_{4,5}$ -Glycuronic Acid Residues From Heparin Oligosaccharides", <i>Proc. of the 7th Intl. Symposium of Glycoconjugates</i> , 1983, 68-69.		
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				GROUP ART UNIT: 1631		EXAMINER: Smith, Carolyn L.	
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C84	MYETTE et al., "Molecular Cloning of the Heparin / Heparan Sulfate Δ4,5 Unsaturated Glycuronidase from <i>Flavobacterium heparinum</i> , its Recombinant Expression in <i>Escherichia coli</i> , and Biochemical Determination of its Unique Substrate Specificity", <i>Biochemistry</i> , 2002, 7424-7434, 41(23).		
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EXAMINER	DATE CONSIDERED
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]